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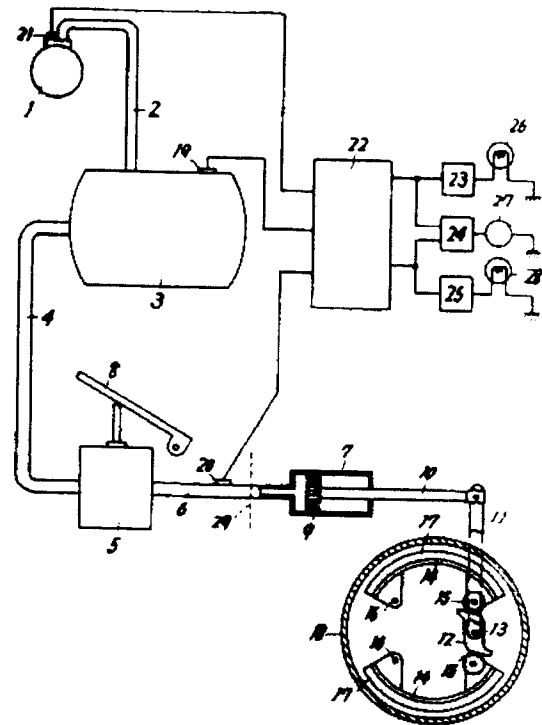
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TITLE : ABRASION LOSS DETECTOR FOR
BRAKE LINING



ABSTRACT : PURPOSE: To detect abrasion loss ever so accurately, by calculating the value of output stroke of an actuator on a basis of the detected value of a feed of pressurized fluid for the actuator, while finding the abrasion loss out of the calculated value.

CONSTITUTION: When a brake pedal 8 is stepped on, a brake valve 5 is opened and thereby compressed air inside a tank 3 is fed to the within of an air cylinder 7 whereby a piston 9 is rendered going to the right. Accordingly, a cam 12 is rotated clockwise around a shaft 13 via a rod 10 and lever 11 while a brake shoe 14 gets expanded via a roller 15 and braking force is therefore produced. At this time, pressure variation inside the air tank 3 is detected by a sensor 19 and also a state of pressure inside the air cylinder 7 is detected by a pressure sensor 20 in the same manner respectively, inputting these output values into a microcomputer 22, and the travel of the piston 9 is thus calculated. Then, abrasion loss 11 is found out of this calculated value, and when it arrives at more than the desired abrasion loss, a lamp 26 and a buzzer 28 give the alarm.

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